

*****Co-located with BPM2018 at Sydney, Journal Special Issue Opportunities*****

2018 International Workshop on Emerging Computing Paradigms and Context in Business Process Management (CCBPM2018, <http://itseg.org/ccbpm2018/>) will be held in conjunction with 2018 International Conference on Business Process Management (BPM2018) at Sydney, Australia on September 10, 2018.

The goal of CCBPM2018 is to promote the role of emerging computing paradigms such as Mobile-Cloud Computing, Edge Computing, especially Fog Computing, and Context in business process management (BPM) by discussing (1) what the distributed computing and context community can bring to BPM community, including business and scientific workflow management; and (2) what are the challenges of BPM and workflow system that BPM community think these emerging computing paradigms and context (e.g. context-aware fog computing based workflow system) may solve. We are looking for extension of business processes and workflows like Fog/context-based BPM and workflow, and if possible, contextualized Fog BPM and workflow systems. After the previous CCBPM events CCBPM2013 (October 28th, 2013, Annecy, Haute-Savoie, France), CCBPM2014 (August 27th, 2014, Beijing, China), and CCBPM2015 (November 4th, 2015, Shanghai, China), CCBPM2018 will be extended in its scope to accommodate the latest progress in computing paradigms especially on Fog Computing.

BPM has been referred to as a "holistic management" approach to aligning an organization's business processes with the needs of users. It promotes business effectiveness and efficiency while striving for innovation, flexibility, and integration with technology. However, the challenge for a large use of business process is the failure in addressing both the dynamic execution environment (e.g., Cloud and Fog) and the elastic requirement of users (i.e., logic of use). Two lines of research emerge to address this problem. Upstream, researchers try to make explicit the contextualization process in designing flexible and elastic business process for process optimization and reuse. Downstream, emerging computing paradigms such as Mobile-Cloud and Fog computing could bring a promising orchestration of business process but suppose a revision of BPM architecture.

The technical issues to be addressed by this workshop are: Where context may intervene for operationalizing business process? What must be the impact of emerging computing paradigms and context in the design and execution of business process? What would be a context-aware BPM and a Mobile-Cloud/Fog based BPM/Workflow Systems? What kinds of context constraints and middleware should be integrated with the business process? Recognizing the interdisciplinary nature of BPM, the workshop also encourages submissions that embrace other disciplines such as Workflow Management, Information Systems and IT Management, Data and Knowledge Management, Web/Software Engineering, Service-Oriented Computing, Social Computing, Big Data and so on. The key criteria for acceptance are excellence and answering challenges specific to the field of Context for BPM and especially in the emerging computing paradigms.

The workshop solicits original papers on a broad range of topics, including but not limited to:

Emerging Computing Paradigms and Context based BPM/workflow: concepts and theory, e. g.

Context-centric flexibility, adaptability and evolution in BPM

Fog/Edge/Mobile-Cloud based BPM and Workflow as a Service

Knowledge and reasoning representation for business process

Security, privacy and trust in Fog/Edge/Mobile-Cloud/Context-based BPM

Other socio-technical aspects of BPM/workflow in the Fog/Edge/Mobile-Cloud

Context-aware business process/workflow, e. g.

Context for Mobile and Ubiquitous applications

Context-aware BPM for Authentication, Authorisation and Accounting

Context-aware recommendation process

Context for dynamic selection of web services

Emerging Computing Paradigms and Context-based workflows and applications, e. g.

Business and scientific workflows in the Fog/Edge/Mobile-Cloud

Decision support systems for Fog/Edge/Mobile-Cloud based BPM

People-/knowledge-intensive process

Crowdsourcing and process based on social networks

Emerging Computing Paradigms and Context based workflow design, execution and scheduling, e. g.

Context and Quality-of-Service constraints for workflow design

Workflow verification and generation with context and QoS constraints

Load balancing and scheduling of Fog/Edge/Mobile-Cloud workflows

Fog/Edge/Mobile-Cloud/Context-based process mining

Submission Guidelines

Submissions must be original contributions that have neither been published previously nor submitted to other conferences or journals while being submitted to CCBPM 2018. Submissions must be formatted according to Springer's LNCS formatting guidelines. Submissions must be in English and must not exceed 12 pages.

<http://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>

Papers must be submitted electronically in PDF format via the CCBPM2018 EasyChair submission site:

<https://easychair.org/conferences/?conf=ccbpm2018>

All workshop papers will be published by Springer as a post-workshop proceedings volume in the series Lecture Notes in Business Information Processing (LNBIP). These proceedings will be made available to all registered participants approximately four months after the workshops, while preliminary proceedings will be distributed during the workshop.

Selected papers will be recommended to a journal special issue of Future Generation Computer Systems (<https://www.journals.elsevier.com/future-generation-computer-systems>) upon significant extension.

Organization Committee:

Honorary Chair: Prof. Jianmin Wang, Tsinghua University

General Chairs: Prof. Michael Sheng, Macquarie University; Dr. Shiping Chen, CSIRO Data61

Program Chairs: Dr. Xiao Liu, Deakin University; Dr. James Xi Zheng, Macquarie University

Publicity Chairs: Dr. Dong Yuan, University of Sydney; Dr. Xiaoliang Fan, Lanzhou University; Dr. Fang Dong, Southeast University

Publication Chair: Dr. Lijie Wen, Tsinghua University

Important Dates:

Papers submission deadline (tentative): 25 May, 2018

Papers notification deadline (tentative): 29 June, 2018

Camera-ready papers deadline: 13 July, 2018

Workshop Date: 10 September, 2018